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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,498	10/30/2003	Renzo Colle	34874-374/2002P10209US02	5722
64280 MINTZ, LEV	7590 06/11/200 IN. COHN. FERRIS. G	D8 LOVSKY & POPEO, P.C.	EXAM	INER
ATTN: PATE	NT INTAKE CUSTOM	CUSTOMER NO. 64280 KARDOS, NEIL R		
BOSTON, MA	CIAL CENTER A 02111		ART UNIT PAPER NUMBER 3623	
			MAIL DATE	DELIVERY MODE
			06/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/696,498 COLLE ET AL. Office Action Summary F.....

	Examiner	AILOIIL	1			
	Neil R. Kardos	3623				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Eletrosions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period via the provision of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period reply is period above, the maximum statutory period via Any reply received by the Office later than three months after the mailing aemed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timudil apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 11 M	arch 2008.					
2a) ☐ This action is FINAL. 2b) ☐ This	action is non-final.					
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the	e merits is			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1.4-17.29 and 30 is/are pending in the	e application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,4-17,29 and 30</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ acc		Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 C	FR 1.121(d).			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓΟ-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	+(d) or (f).				
 Certified copies of the priority documents 	s have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	-	ed in this National	Stage			
application from the International Bureau						
* See the attached detailed Office action for a list	or the certified copies not receive	d.				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Interview Summary Paper No(s)/Mail Da					
3) information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informat Pater LApplication						
Paper No(s)/Mail Date	6) Other:					

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Art Unit: 3623

DETAILED ACTION

This is a FINAL Office action on the merits.

Claims 1 and 4-17 have been amended.

Claims 2-3 and 18-28 have been cancelled.

Claims 29-30 have been added.

Currently, claims 1, 4-17, and 29-30 are pending and have been examined.

Response to Amendment

Applicant's amendments to claims 1 and 4-17 and cancellation of claims 2-3 and 18-28
are sufficient to overcome the 35 U.S.C. § 101 rejection set forth in paragraph(s) 3 of the
previous office action.

Response to Arguments

- Applicant's arguments filed March 11, 2008 have been fully considered but they are not persuasive.
- 4. Applicant argues that the combination of Srimuang with Mahapatro fails to disclose or suggest that non-resource constraint data is obtained by polling a remote computer separate from the first repository as recited. Examiner respectfully disagrees.
- 5. In figure 1, Srimuang depicts obtaining information from a remote computer. Items 110-114 are customer computers from which scheduling requests can be obtained (see paragraph 105). Items 150-156 are vendor computers containing vendor resource information (see paragraph 81-83). Mahapatro also discloses obtaining information from a remote computer (see

Art Unit: 3623

figure 1: item 11). Furthermore, Mahapatro discloses that a user can input deadline information for a scheduling request (see column 12). Thus, a server of Srimuang (item 104) can obtain Mahapatro's deadline (non-resource) constraints from Srimuang's customer computer (items 110-114) (see 103 rejection below as to why this would be obvious). Srimuang's server (item 104) also obtains resource information (see at least paragraph 105) from a vendor computer (items 150-156). Therefore, the combination of Srimuang and Mahapatro teaches that resource and non-resource information is obtained from separate repositories on remote computer systems.

6. Examiner also notes that even if the resource and non-resource information were obtained from the same data repository, it is well within the skill level of one of ordinary skill in the art to separate data into different databases in order to organize information and streamline data collection.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1 and 4-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 U.S. pre-grant publication number 2003/0061087 to Srimuang ("Srimuang") in view of U.S. patent number 6,571,215 to Mahapatro ("Mahapatro").

Claim 1: Srimuang discloses a computer-implemented method comprising:

Art Unit: 3623

associating, based on user input, resource information with task items that need to
be completed as part of performing a service action by an engine (see paragraphs
10, 13, and 110, disclosing scheduling an appointment based on availability of
required personnel, consumable resources, and non-consumable resources;
paragraph 98-99, disclosing allowing users to schedule appointments based on
available resources; figure 1, depicting schedule databases and availability
checking; paragraphs 72, 79-81); and

- polling a first repository of resource information associable with the task items, the repository including human resource information, reusable resource information, and non-reusable resource information (see id.), wherein:
- the human resource information includes availability information for human resources (see id.),
- the reusable resource information includes availability information for reusable resources (see id.),
- the non-reusable resource information includes availability information for nonreusable resources (see id.);
- scheduling the resources needed to perform the service action (see id.).

Srimuang does not explicitly disclose:

 polling a remote computer system different than the first repository to obtain nonresource constraint information for the service action; and

Art Unit: 3623

scheduling resources needed to perform the service action based on results
obtained from the repository of resource information as limited by the nonresource constraint information obtained from the remote computer system.

However, Srimuang does disclose retrieving information from a remote computer (see figure 1 and paragraphs 68-70).

Mahapatro discloses using non-resource constraint information for a service action (see column 12: lines 13-27; column 12: table 1, disclosing including deadlines as a constraint).

Mahapatro also teaches retrieving information from a remote computer (figure 1: item 11).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to obtain the non-resource constraint information taught by Mahapatro from a remote computer in order to schedule services according to the method disclosed by Srimuang. One of ordinary skill in the art would have been motivated to do so for the benefit of increased efficiency and accuracy in meeting customer demands on time (see column 5: lines 5-24). Also, using a remote computer to obtain this information is a known element in the prior art that produces a predictable result (e.g. a successful transmittal from one computer to another).

<u>Claim 4</u>: Srimuang and Mahapatro do not explicitly disclose wherein the non-resource constraint information comprises information about contractual requirements.

Mahapatro, however, teaches including non-resource constraints in task scheduling. Furthermore, Mahapatro teaches constraints that are commonly associated with contractual requirements, such as start dates, end dates, priorities, and specific resource assignments (see column 12: table 1).

Examiner takes Official Notice that it would have been obvious to one in the scheduling arts to retrieve the constraints taught by Mahapatro from a contract and incorporate them into the invention disclosed by Srimuang. One of ordinary skill in the art would have been motivated to do so for the benefit of increased efficiency and accuracy in meeting customer demands (see Mahapatro column 5: lines 5-24).

<u>Claims 5-6</u>: Srimuang discloses wherein the availability information for human resources comprises availability information for individuals and for groups of individuals (see paragraph 56).

<u>Claim 7</u>: Srimuang discloses wherein the availability information for reusable resources comprises availability information for tools (see paragraph 56, disclosing wherein the reusable resource is an object, such as a dentist's chair; paragraph 92, disclosing wherein the reusable resource is a card deck, which is a tool for playing a card game).

<u>Claim 8</u>: Srimuang discloses wherein the availability information for reusable resources comprises availability information for work areas (see paragraph 56, disclosing wherein the reusable resource is a location, such as a conference room; paragraph 110, disclosing wherein the reusable resource is an examination room).

<u>Claim 9</u>: Srimuang discloses wherein the availability information for non-reusable resources comprises availability information for spare parts (see paragraph 10, disclosing wherein the non-reusable resource is shampoo, motor oil, or tongue depressors; paragraph 56).

Claim 10: Srimuang discloses wherein:

 the task items include a human resource skill requirement (see paragraph 13, disclosing scheduling nurses and doctors),

Art Unit: 3623

 the human resource information includes a indication of a skill possessed by particular human resources that are represented in the human resource information (see id.), and

Page 7

the engine associates a particular human resource with a particular task item only
when the indication of the skill possessed by the particular human resource
matches the human resource skill requirement of the task item (see id.; paragraphs
10 and 110, disclosing scheduling an appointment based on availability of
different personnel, consumable resources, and non-consumable resources).

Claim 11: Srimuang discloses wherein:

- the task items include a tool characteristic (see paragraph 13, disclosing scheduling examination rooms and x-ray rooms),
- the reusable resource information includes an indication of a tool characteristic for particular tools that are represented in the reusable resource information (see id.), and
- the engine associates a particular tool with a particular task item only when the
 indication of the tool characteristic for a particular tool matches the tool
 characteristic of the task item (see id.; paragraphs 10 and 110, disclosing
 scheduling an appointment based on availability of different personnel,
 consumable resources, and non-consumable resources).

<u>Claims 12-14</u>: Srimuang discloses wherein the availability information for human resources, reusable resources, and non-reusable resources is provided to the repository of resource information from a computer system other than the computer system for scheduling

Art Unit: 3623

resources (see figure 1, depicting vendors and customers that provide availability information over a network to scheduling server 104; paragraphs 68-69, disclosing scheduling software divided among a plurality of servers; paragraphs 81-83).

<u>Claim 15</u>: Srimuang discloses wherein the engine and the repository of resource information are capable of communicating using a network with mobile clients (see figure 1, depicting engine and repository in scheduling server 104 communicating via the internet 102 with mobile clients 106-114).

Claim 16: Srimuang discloses wherein the engine is configured to send, to each mobile client, resource information associated with task items that need to be completed as part of performing a particular service action (see paragraph 95, disclosing wherein a customer can view an employee's availability).

Claim 17: Srimuang discloses wherein the engine is configured to receive, from each mobile client, user input for the purpose of associating resource information with a particular task item (see paragraphs 98, 104-106, and 110, disclosing wherein a customer can make an appointment that affects the availability of a resource).

Claims 29 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 U.S. patent number 7,174,303 to Glazer et al ("Glazer") in view of U.S. pre-grant
 publication number 2003/0036925 to Miller ("Miller").

Claim 29: Glazer discloses a computer-implemented method comprising:

 receiving a request to schedule a service request (see column 2: lines 51-58; column 3: lines 59-66); polling a first repository to associate each task with at least on of a person, a nonreusable resource, and a reusable resource (see column 3: line 66 through column 4: line 9):

- determining whether there are any non-resource constraints limiting when the service order can be scheduled (see column 3: lines 53-55);
- determining a time slot within a time range defined by the non-resource
 constraints in which the associated persons, non-reusable resources, and reusable
 resources are also available (see column 3: line 66 through column 4: line 9;
 figure 2); and
- scheduling the service order during the time slot (see column 4: lines 31-33).

Glazer does not explicitly disclose polling a second repository remote from the first repository for non-resource constraints.

Examiner takes Official Notice that it was well-known in the computing arts at the time the invention was made to retrieve information from a remote computer (e.g. from a server or over the internet).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to obtain the non-resource constraint information disclosed by Glazer from a remote computer according to well-known computing methods. This combination of known elements produces a result that would be predictable to one of ordinary skill in the art (e.g. transmission of data from one computer to another).

Glazer also does not explicitly disclose wherein the service request comprises a plurality of tasks.

Art Unit: 3623

Miller discloses this limitation, including assigning resources to each individual task of a service request (see at least paragraphs 3-5).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply Glazer's method of assigning resources and scheduling for a service request to the individual task items of that service request as taught by Miller. This combination of known elements produces a result that would be predictable to one of ordinary skill in the art (e.g. assigning resources to multiple tasks that make up a service order).

Claim 30: Glazer does not explicitly disclose the limitations of this claim.

Miller discloses:

- rendering, on a client computer, a graphical user interface, the graphical user
 interface presenting a user with a generic service order template for a service
 requested by the service request, the generic service order template comprising a
 collection of reusable data that identifies each of the tasks to be performed for the
 service requests, and for each task, a predetermined, expected duration of the task
 and an identification of other tasks on which the tasks depends (see figures 3-4;
 paragraphs 44-51);
- receiving user-generated input modifying the generic service order template (see figures 3-4); and
- initiating the scheduling of the service request based on the modified generic service order template (see paragraph 44).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the service order templates taught by Miller to schedule a service as disclosed

Art Unit: 3623

by Glazer. One of ordinary skill in the art would have been motivated to do so for the benefit of efficiencies gained by streamlining the process of filling out an order form (see Miller: paragraphs 7-8).

Art Unit: 3623

Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- U.S. pre-grant publication number 2003/0126141 to Hassman et al, directed to managing and resourcing persons, skill sets, and project requirements.
- U.S. pre-grant publication number 2005/0015504 to Dorne et al, directed to resource management.
- U.S. pre-grant publication number 2004/0138939 to Theiler, directed to managing workflow.
- U.S. pre-grant publication number 2004/0162811 to Wetzer et al, directed to planning, scheduling, and allocating MRO resources.
- U.S. patent number 7,035,808 to Ford, directed to arranging and selecting resources for work items.
- U.S. patent number 5,630,070 to Dietrich et al, directed to optimizing manufacturing resource planning.
- U.S. pre-grant publication number 2001/0027481 to Whyel, directed to appointment/reservation scheduling.
- U.S. pre-grant publication number 2003/0216945 to Dvorak et al, directed to analyzing and responding to orders.

Art Unit: 3623

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Neil R. Kardos whose telephone number is (571) 270-3443. The

examiner can normally be reached on Monday through Friday from 9 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Beth Van Doren can be reached on (571) 272-6737. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

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Neil R. Kardos Examiner Art Unit 3623

NRK 6/4/08

/Romain Jeanty/

Primary Examiner, Art Unit 3623